

FORM PTO-1390 (Modified)
(REV 11-98)

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

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TRANSMITTAL LETTER TO THE UNITED STATES
DESIGNATED/ELECTED OFFICE (DO/EO/US)
CONCERNING A FILING UNDER 35 U.S.C. 371

RBL0064

U.S. APPLICATION NO. (IF KNOWN, SEE 37 CFR

09/600458

INTERNATIONAL APPLICATION NO.

PCT/DE99/00076

INTERNATIONAL FILING DATE

15 January 1999 (15-01-99)

PRIORITY DATE CLAIMED

19 January 1998 (12-01-98)

TITLE OF INVENTION

METHOD FOR TERMINAL ASSISTED MENU PRESENTATION OF ADDED VALUE SERVICES IN
MOBILE COMMUNICATION SYSTEMS

APPLICANT(S) FOR DO/EO/US

DeTeMobil Deutsche Telekom MobileNet GmbH

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.
3. ☒ This is an express request to begin national examination procedures (35 U.S.C. 371(f)) at any time rather than delay examination until the expiration of the applicable time limit set in 35 U.S.C. 371(b) and PCT Articles 22 and 39(1).
4. ☒ A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date.
5. ☒ A copy of the International Application as filed (35 U.S.C. 371 (c) (2))
 - a. ☒ is transmitted herewith (required only if not transmitted by the International Bureau).
 - b. ☐ has been transmitted by the International Bureau.
 - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☒ A translation of the International Application into English (35 U.S.C. 371(c)(2)).
7. ☒ A copy of the International Search Report (PCT/ISA/210).
8. ☐ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3))
 - a. ☐ are transmitted herewith (required only if not transmitted by the International Bureau).
 - b. ☐ have been transmitted by the International Bureau.
 - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
 - d. ☐ have not been made and will not be made.
9. ☐ A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
10. ☒ An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)).
11. ☒ A copy of the International Preliminary Examination Report (PCT/IPEA/409).
12. ☒ A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)).

Items 13 to 20 below concern document(s) or information included:

13. ☐ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
14. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
15. ☒ A **FIRST** preliminary amendment.
16. ☐ A **SECOND** or **SUBSEQUENT** preliminary amendment.
17. ☐ A substitute specification.
18. ☐ A change of power of attorney and/or address letter.
19. ☒ Certificate of Mailing by Express Mail
20. ☒ Other items or information:

Revised Pages Attached to International Preliminary Examination Report, Written Notification (PCT/IPEA/408) ,
translation of Written Notification and Check No. 048086

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of)
Andreas Sasse) Group:
Serial No.)
Filed:) Examiner:
Title: METHOD FOR TERMINAL ASSISTED MENU)
PRESENTATIONS OF ADDED VALUE)
SERVICES IN MOBILE COMMUNICATION)
SYSTEMS)

**PRELIMINARY AMENDMENT DELETING
MULTIPLE DEPENDENT CLAIMS**

Assistant Commissioner of Patents
Washington, DC 20231

Sir:

Prior to calculating the filing fee, please enter the following amendments to the application.

IN THE CLAIMS

In claim 4, line 1, delete "any of the claims 1 through 3" and substitute therefor
--claim 1--.

In claim 6, line 1, delete "any of the claims 1 through 5" and substitute therefor
--claim 1--.

In claim 7, line 1, delete "any of the claims 1 through 6" and substitute therefor
--claim 1--.

In claim 8, line 1, delete "any o the claims 1 through 7" and substitute therefor
--claim 1--.

In claim 9, line 1, delete "any of the claims 1 through 8" and substitute therefor
--claim 1--.

In claim 10, line 1, delete "any of the claims 1 through 9" and substitute therefor
--claim 1--.

PATENT

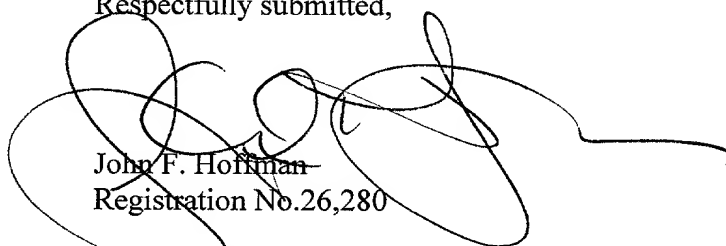
In claim 11, line 1, delete "any of the claims 1 through 10" and substitute therefor
--claim 1--.

In claim 12, line 1, delete "any of the claims 1 through 11" and substitute therefor
--claim 1--.

In claim 13, line 1, delete "any of the claims 1 through 12" and substitute therefor
--claim 1--.

In claim 14, line 1, delete "any of the claims 1 through 13" and substitute therefor
--claim 1--.

Respectfully submitted,

A large, stylized handwritten signature in black ink, appearing to read "John F. Hoffman".

John F. Hoffman
Registration No. 26,280

Attorney for Applicant

JFH:pmp/136611.1

BAKER & DANIELS
111 East Wayne Street, Suite 800
Fort Wayne, IN 46802

Date: July 17, 2000

Method for terminal assisted menu presentation of value added services in mobile communication systems.

Specifications

The invention relates to a method for terminal assisted menu presentation of value added services in mobile communication systems according to the preamble of patent claim 1.

Previously, after selecting a value added services node (VAS node), such as a mobile box system, a subscriber of a mobile communication system had to use verbally announced information in the menu to be able to make the appropriate entries and inquiries. This is relatively time-consuming, cumbersome and susceptible to errors because, most of the time, the subscriber has to memorize multiple references (number - function). If he forgets a reference he has to replay the verbal announcements. As a result the process may take a relatively long time.

EP-A-0 659 004 describes a mobile telephone where a certain preset service can be called up by means of using a key (soft key). The allocation of the respective service to said key is predetermined at the time the mobile telephone is manufactured and is stored in the unit itself.

DE-A-196 10 840 discloses a method for loading electronic games in a mobile communication terminal of a mobile communication network.

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A subscriber is able to communicate by means of his communication terminal with a control system in the mobile telephone network via a dialog and select at least one game from a number of available games where, after the selection has been made, the data pertaining to the game and/or the game program is transferred by the control system to the communication terminal where it is stored. The stored game can now be executed by the subscriber in his terminal. A transfer of data to the terminal for terminal assisted menu presentation of value added services was not disclosed in this publication.

EP-A-0 772 367 relates to a mobile telephone system having a central service station which is in radio contact with a mobile station and exchanges data with said mobile station. For controlling the data communication the mobile station includes a microprocessor which is controlled by means of a control program and detects and analyzes the short messages sent by the service station. Based on the information contained in the short message the microprocessor modifies the content of its control program. This method allows technical functions of the mobile station to be released or blocked. Consequently, this method is related purely to influencing the control programs that are already available in the mobile station via the service station, and not to transferring, modifying and executing programs for controlling value added services in the terminal.

The object of the invention is to propose a method for terminal assisted menu presentation of value added services in mobile communication systems, which ...

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The problem is solved by means of the characterizing features in patent claim 1.

It describes the use of objects (programs, data, etc.) in mobile stations to assist in the use of a value added services node. In accordance with the invention the objects are loaded in the ME (mobile equipment) or the SIM (subscriber identity module) of a mobile terminal and are controlled, modified or executed via the aerial interface. The objects assist the operation between mobile station user and the value added services node in that the menu for utilizing the respective value added service is displayed fully or in part on the display of the MS (mobile station) part depending on the actual position in the menu.

The mobile station user is able to initiate functions in the value added services nodes by means of actuating the keys displayed in the menu, such as listening to new messages in the mobile box. When a key is actuated the menu in the display of the mobile terminal is adjusted by the value added services node in accordance with the action that took place in the value added services node. This may also occur as a result of loading a new object or modifying a previously loaded object.

The objects allow a preferably visual menu presentation in the mobile station for the selected value added service making it considerably easier for the subscriber to use it.

The objects are loaded in the mobile station either via the aerial interface or in special loading stations, for example at the dealer's location.

Replacement Page (Rule 26)

The loading process is initiated via the aerial interface by the user or by events, such as the initial call from/to a value added services node.

The objects contain data and or functions/programs, which are stored and executed on the SIM card and/or in the mobile station.

The objects are capable of adapting to the capabilities of the mobile station, such as the size of the display, black and white or color. Such adaptation takes place either via polymorphism or by storing the capabilities of the mobile station in the communication network whereby respectively adapted objects are loaded, when required.

The objects are activated in the mobile station either explicitly by the user or implicitly by events such as logging into the mobile telephone network, the receipt of messages (short message, call), etc.

Modifications of the objects are initiated either explicitly by the user or implicitly by the object itself, for example for updating a menu structure.

The invention will be explained below in more detail by means of an example shown in the drawing.

The drawing shows a representation of the systems involved. The objects (applications) are held in an object center 9 in a database.

Loading the objects in the mobile station 1 (mobile equipment 2 and/or (U) SIM 3) or modifying the objects takes place via the aerial interface 5 of the mobile telephone network 4 or the interface of a SIM card reader from a service provider 10.

The preferred transmitting mechanisms for the objects via the mobile telephone network 4 are short messages (SM: short messages) or GPRS services.

Short messages (SM) or GPRS services are also used for controlling the objects. Alternatively, DTMF sounds (dual tone multi frequency) may be used by the mobile station 1 if a voice connection exists, for example with mobile box systems. The DTMF sounds are analyzed by the application in the value added services node 7 and are able to initiate respective control messages to the objects via short messages (SM) or GPRS services.

If the objects are to be adapted to the individual capabilities of the mobile station 1 the respective profiles of the capabilities are available either in the home location register 8 (HLR: home location register) of the subscriber or in the object center 9. In the former case the object center 9 has to request the respective profile from the home location register 8.

The SIM application tool kit according to GSM recommendation 11.14 offers the basic functionality of loading programs and data in the mobile station 1 via the aerial interface 5 and of executing these in the SIM 3. The method described in the invention can be applied with the aid of this basic functionality. However, said method may also be applied on the basis of other mechanisms.

The following describes how objects are loaded and activated on the basis of the SIM application tool kit for assisting in the use of a value added service and should be understood as a potential concrete implementation of the invention.

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An object contains an abbreviated form of the menu of a value added service having a fixed allocation between the keys of the mobile station and actions of the value added service.

Upon initial contact (call) of a mobile station with the value added services node 7 objects are loaded in the subscriber identity module 3 (SIM) via the short message service 6. For this purpose, the value added services node 7 initiates a respective procedure in the object center 9 via a message as a result of which the object allocated to the selected value added service is loaded in the mobile station 1.

After the call to the value added services node has been generated an object is activated in that the value added services node 7 sends a short message (SMS) to the mobile station 1. Said short message contains a version number which is compared with the version number of the object available in the mobile station and, if applicable, causes a more up-to-date object to be loaded.

If the user selected a menu item via the keyboard and if this operation has been successfully completed in the value added services node 7, then the value added services node 7 sends a short message (SM) to the SIM 3 whereupon the SIM 3 updates the display in the mobile station 1.

The objects are modified via short messages (SM). This substantially takes place in case of upgrades, i.e. if the menu in the value added services node 7 or the menu of an individual value added service has changed and the object is subsequently adapted accordingly. If required, the object will be erased completely and replaced by a new one.

Alternatively, the objects may be loaded and modified in the subscriber identity module 3 at the location of a service provider 10.

This takes place by means of a SIM card reading and writing device 11 from the service provider 10 by means of which the required data are written into the memory of SIM. The service provider can request the respective object data from the object center 9 and supply these to the SIM card reading and writing device 11.

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Drawing References

- 1 Mobile station
- 2 ME mobile equipment
- 3 Subscriber identity module (SIM, USIM)
- 4 Mobile telephone network
- 5 Aerial interface
- 6 Short message service center
- 7 Value added services node (VAS node)
- 8 Home location register (HLR)
- 9 Object center
- 10 Service provider
- 11 SIM card reading and writing device (interface)

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Patent Claims

1. Method for terminal assisted menu presentation of value added services in mobile communication systems where the value added services are accessible via value added services nodes where objects are loaded in a mobile station comprising a mobile terminal and a subscriber identity module, characterized in that the objects are controlled, modified or executed via the aerial interface of the mobile communication system and consist of programs, functions and/or data that assist the communication between subscriber and value added services node and the use of the value added services offered.
2. Method according to claim 1, characterized in that the objects are loaded in the mobile station via the aerial interface.
3. Method according to claim 1, characterized in that the objects are loaded and/or modified in special dealer, service provider, etc. loading stations.
4. Method according to any of the claims 1 through 3, characterized in that with the aid of the objects a menu for a value added services node is generated and displayed fully or in part on the display of the mobile station.
5. Method according to claim 4, characterized in that the menu in the display of the mobile station is changed, adjusted and/or updated by means of loading a new object in dependence of the actions previously executed in the value added service node.

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6. Method according to any of the claims 1 through 5, characterized in that the objects are stored in an object center of the mobile communication system from where they are called up and loaded in the mobile terminal.
7. Method according to any of the claims 1 through 6, characterized in that the objects are loaded into a memory of the mobile terminal (mobile equipment ME) in the mobile station.
8. Method according to any of the claims 1 through 7, characterized in that the objects are loaded into a memory of the subscriber identity module.
9. Method according to any of the claims 1 through 8, characterized in that transfer, activation, modification and up-dating the objects take place via short messages or GPRS services of the mobile communication system.
10. Method according to any of the claims 1 through 9, characterized in that keys or key combinations in the mobile station are allocated via the objects to individual functions of the value added services.
11. Method according to any of the claims 1 through 10, characterized in that loading and/or modifying the objects in the mobile station is initiated by means of selected events.

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12. Method according to any of the claims 1 through 11, characterized in that loading and/or modifying the objects in the mobile station is initiated by the subscriber.
13. Method according to any of the claims 1 through 12, characterized in that the objects adapt to the technical capabilities of the mobile station in that said objects verify the technical capabilities of the mobile station and automatically adapt accordingly.
14. Method according to any of the claims 1 through 13, characterized in that the technical capabilities of the mobile stations are stored in a special database and that before loading an object in a certain mobile station said mobile station's capabilities are verified and subsequently a suitable object is selected and loaded in the mobile station.

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Fig. 1

Mobilstation = mobile station

Luftschnittstelle = aerial interface

VAS-Knoten = VAS node

Netz = network

Applikationsobjekte = application objects

Mobilstation Profil = mobile station profile

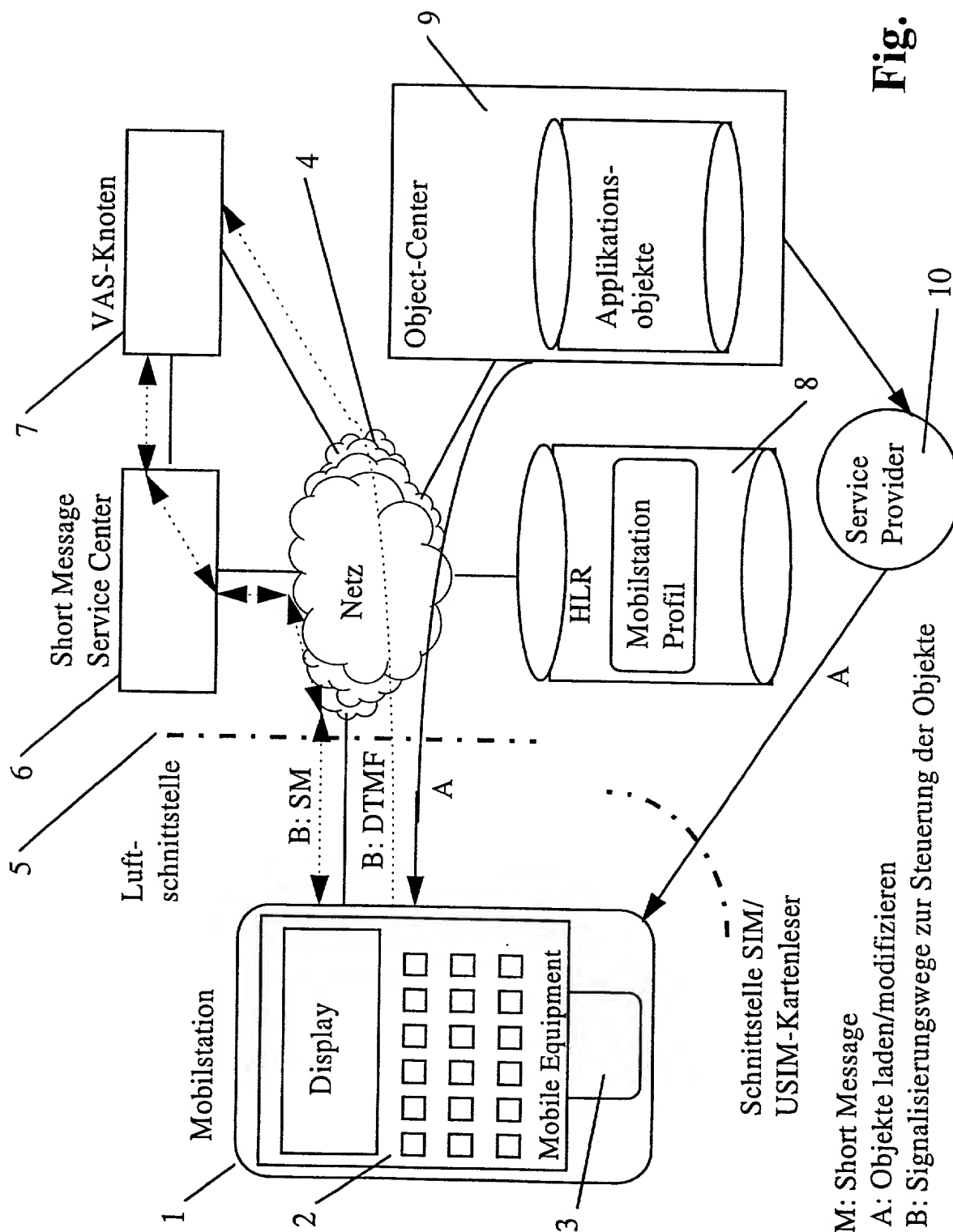
Schnittstelle SIM / USIM Kartenleser = Interface SIM / USIM card reader

A: Objekte laden/modifizieren = load/modify objects

B: Signalisierungswege zur Steuerung der Objekte = signaling paths for controlling the objects

[remainder of terms in English]

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**Fig. 1**

SM: Short Message

A: Objekte laden/modifizieren

B: Signalisierungswege zur Steuerung der Objekte

Declaration and Power of Attorney for Patent Application

Erklärung für Patentanmeldungen mit Vollmacht

German Language Declaration

Als nachstehend benannter Erfinder erkläre ich hiermit an Eides Statt:

daß mein Wohnsitz, meine Postanschrift und meine Staatsangehörigkeit den im nachstehenden nach meinem Namen aufgeführten Angaben entsprechen, daß ich nach bestem Wissen der ursprüngliche, erste und alleinige Erfinder (falls nachstehend nur ein Name angegeben ist) oder ein ursprünglicher, erster und Mitfinder (falls nachstehend mehrere Namen aufgeführt sind) des Gegenstandes bin, für den dieser Antrag gestellt wird und für den ein Patent für die Erfindung mit folgendem Titel beantragt wird:

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

METHOD FOR TERMINAL ASSISTED MENU PRESENTATION OF ADDED VALUE SERVICES IN MOBILE COMMUNICATION SYSTEMS

deren Beschreibung hier beigefügt ist, es sei denn (in diesem Falle Zutreffendes bitte ankreuzen), diese Erfindung

☐ wurde angemeldet am _____
unter der US-Anmeldenummer oder unter der
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des Patentwesens (PCT)
_____ und am
_____ abgeändert (falls
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the specification of which is attached hereto unless the following box is checked:

☒ was filed on January 15, 1999
as United States Application Number or PCT
International Application Number
PCT/DE99/00078 and was amended on
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Ich bestätige hiermit, daß ich den Inhalt der oben angegebenen Patentanmeldung, einschließlich der Ansprüche, die eventuell durch einen oben erwähnten Zusatzantrag abgeändert wurde, durchgesehen und verstanden habe.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

Ich erkenne meine Pflicht zur Offenbarung jeglicher Informationen an, die zur Prüfung der Patentfähigkeit in Einklang mit Titel 37, Code of Federal Regulations, § 1.56 von Belang sind.

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56.

[Page 1 of 3]

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German Language Declaration

Ich beanspruche hiermit ausländische Prioritätsvorteile gemäß Title 35, US-Code, § 119 (a)-(d), bzw. § 365(b) aller unten aufgeführten Auslandsanmeldungen für Patente oder Erfinderurkunden, oder § 365(a) aller PCT internationalen Anmeldungen, welche wenigstens ein Land ausser den Vereinigten Staaten von Amerika benennen, und habe nachstehend durch ankreuzen sämtliche Auslandsanmeldungen für Patente bzw. Erfinderurkunden oder PCT internationale Anmeldungen angegeben, deren Anmeldetag dem der Anmeldung, für welche Priorität beansprucht wird, vorangeht.

Prior Foreign Applications
(Frühere ausländische Anmeldungen)

198 01 576.3	Germany
(Number) (Nummer)	(Country) (Land)

(Number) (Nummer)	(Country) (Land)

Ich beanspruche hiermit Prioritätsvorteile unter Title 35, US-Code, § 119(c), aller US-Hilfsanmeldungen wie unten aufgezählt.

(Application No.) (Aktenzeichen)	(Filing Date) (Anmeldetag)

(Application No.) (Aktenzeichen)	(Filing Date) (Anmeldetag)

Ich beanspruche hiermit die mir unter Title 35, US-Code, § 120 zustehenden Vorteile aller unten aufgeführten US-Patentanmeldungen bzw. § 365(c) aller PCT internationalen Anmeldungen, welche die Vereinigten Staaten von Amerika benennen, und erkenne, insofern der Gegenstand eines jeden früheren Anspruchs dieser Patentanmeldung nicht in einer US-Patentanmeldung, bzw. PCT internationalen Anmeldung in in einer gemäß dem ersten Absatz von Title 35, US-Code, § 112 vorgeschriebenen Art und Weise offenbart wurde, meine Pflicht zur Offenbarung jeglicher Informationen an, die zur Prüfung der Patentfähigkeit in Einklang mit Title 37, Code of Federal Regulations, § 1.56 von Belang sind und die im Zeitraum zwischen dem Anmeldetag der früheren Patentanmeldung und dem nationalen oder im Rahmen des Vertrags über die Zusammenarbeit auf dem Gebiet des Patentwesens (PCT) gültigen internationalen Anmeldetags bekannt geworden sind.

PCT/DE99/00076 17 January 1999

(Application No.) (Aktenzeichen)	(Filing Date) (Anmeldetag)

(Application No.) (Aktenzeichen)	(Filing Date) (Anmeldetag)

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I hereby claim foreign priority under Title 35, United States Code, § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or PCT International application having a filing date before that of the application on which priority is claimed.

19 January 1998	<input type="checkbox"/>
(Day/Month/Year Filed) (Tag/Monat/Jahr der Anmeldung)	

	<input type="checkbox"/>
(Day/Month/Year Filed) (Tag/Monat/Jahr der Anmeldung)	

I hereby claim the benefit under Title 35, United States Code, § 119(c) of any United States provisional application(s) listed below.

Thereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s), or § 365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56 which became available between the filing date of the prior application and the national or PCT International filing date of this application.

Published

(Status) (patented, pending, abandoned) (Status) (patentiert, schwebend, aufgegeben)

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German Language Declaration

9

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POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith: (list name and registration number)
 John F. Hoffman, Regis. No. 26,280; Anthony Niewyk, Regis. No. 24,871; Kevin R. Erdman, Regis. No. 33,687; Michael D. Smith, Regis. No. 40,181; Michael S. Gzybowski, Regis. No. 32,816; Michael D. Schwartz, Regis. No. 44,326; Scott M. Lohnes, Regis. No. 45,451; Steven M. Hanley, Regis. No. P-46,756; and Adam F. Cox, Regis. No. P-46,644.

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Telefonische Auskünfte: (Name und Telefonnummer)

Vor- und Zuname des einzigen oder ersten Erfinders	Full name of sole or first inventor	1-00 Andreas Sasse
Unterschrift des Erfinders	Inventor's signature	Sasse
Datum	Date	31.7.00
Wohnsitz	Residence	Hennef, Germany DEX
Staatsangehörigkeit	Citizenship	German
Postanschrift	Post Office Address	Zur Mühle 13
		D-53773 Hennef, Germany
Vor- und Zuname des zweiten Miterfinders (falls zutreffend)	Full name of second joint inventor, if any	
Unterschrift des zweiten Erfinders	Second Inventor's signature	Date
Datum		
Wohnsitz	Residence	
Staatsangehörigkeit	Citizenship	
Postanschrift	Post Office Address	

(Im Falle dritter und weiterer Miterfinder sind die entsprechenden Informationen und Unterschriften hinzuzufügen.)

(Supply similar information and signature for third and subsequent joint inventors.)